

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-57-80-1S-HEG**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-61)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-57-80-1S-HEG
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 5700K, 80 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

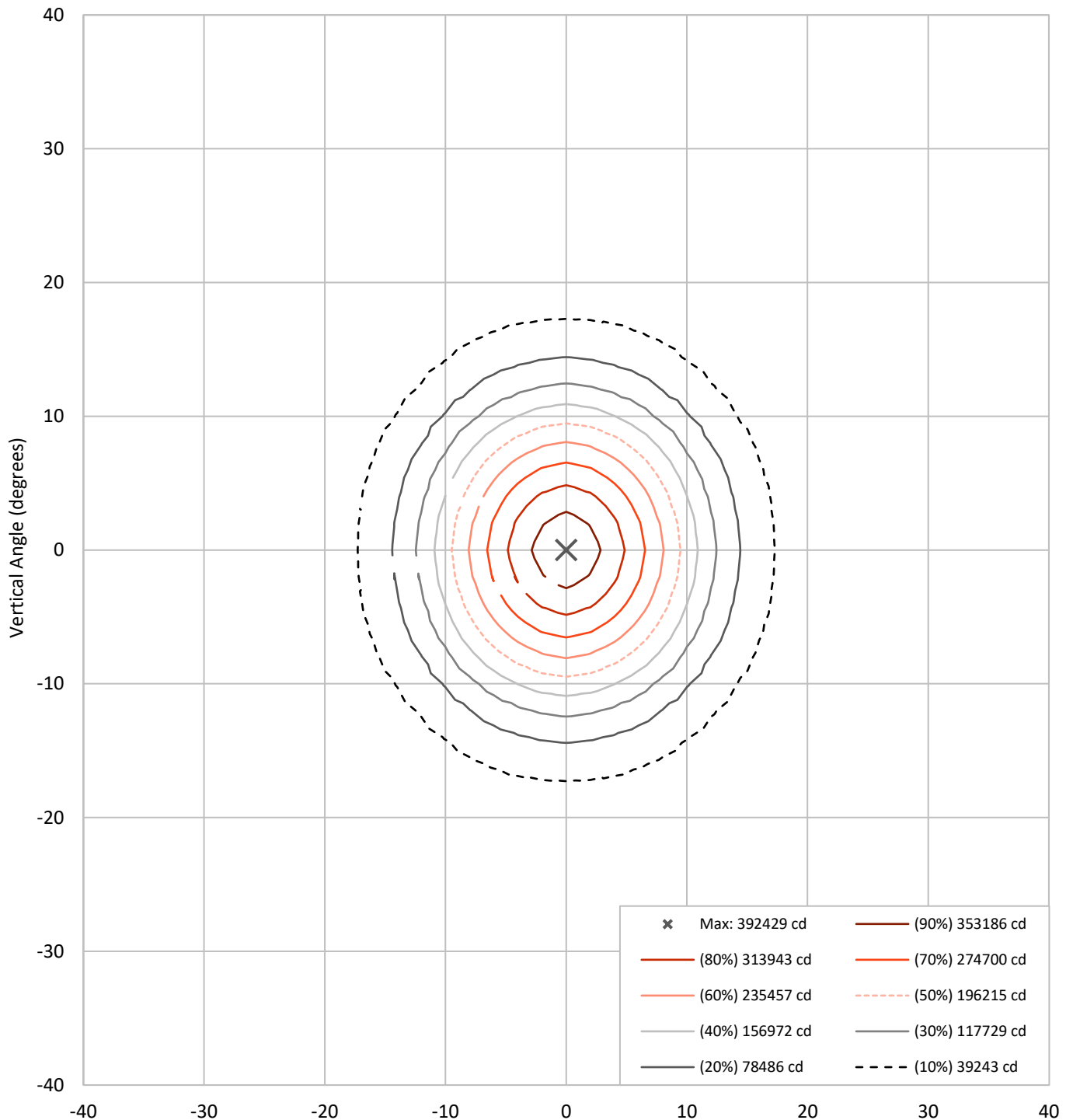
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	53160.7 lumens	Max Intensity:	392429 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	154.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	19°H x 19°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	22912.9 lumens	Field Lumens:	42210.6 lumens
Beam Efficiency:	43.1%	Field Efficiency:	79.4%

Input Watts (W): 343.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

Iso-Candela Plot





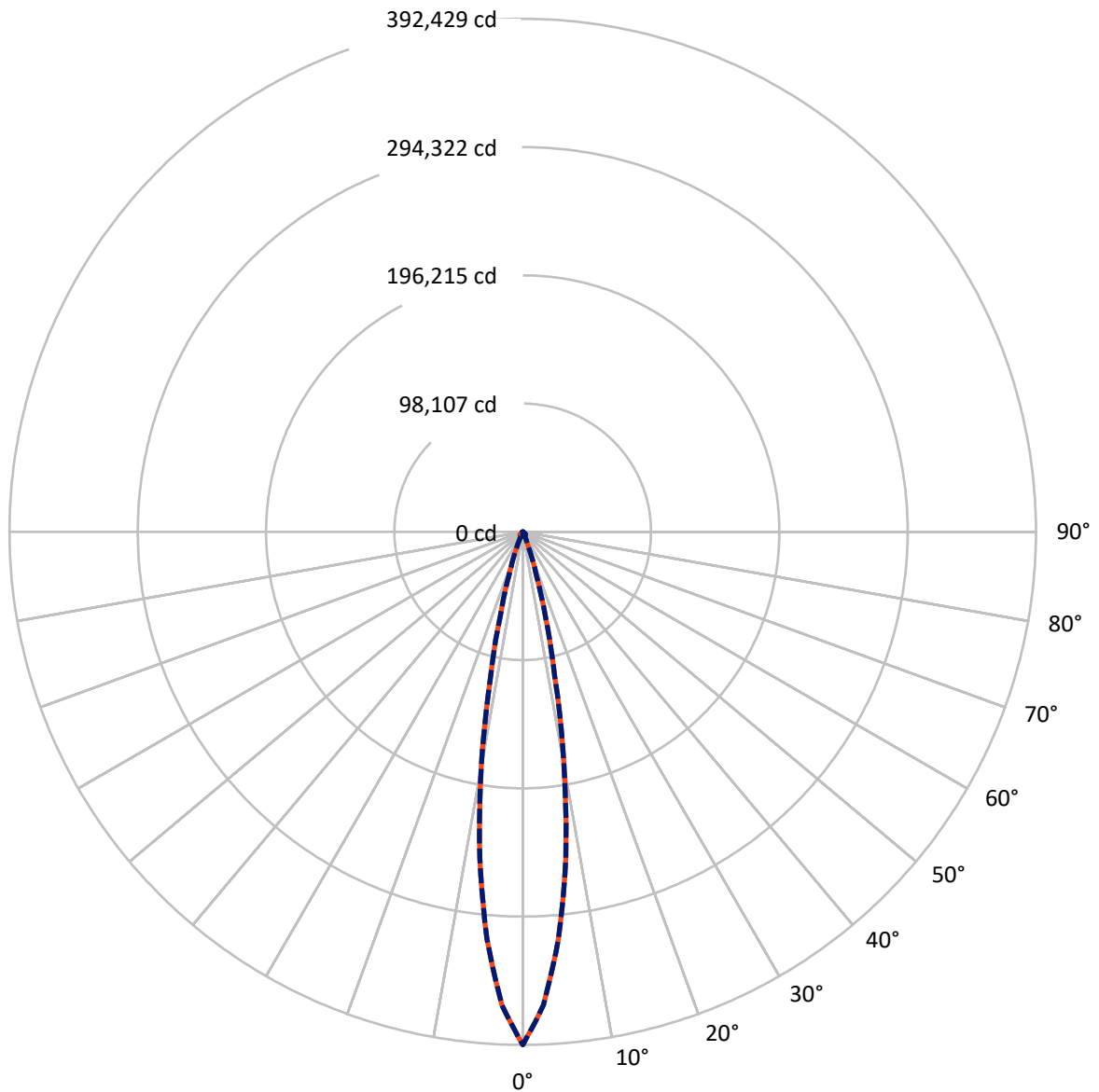
REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

Lumen Table

90	0.1		0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1	
80	0.1		0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1	
70	0.2	0.3	1.1	3.3	6.7	10.4	13.4	15.1	15.1	13.4	10.4	6.7	3.3	1.1	0.3	0.2	0.2	0.2
60		0.8	3.9	9.6	16.6	22.4	26.2	28.3	28.3	26.2	22.4	16.6	9.6	3.9	0.8			
50	0.6	2.0	7.9	16.4	24.0	40.6	64.0	76.8	76.8	64.0	40.6	24.0	16.4	7.9	2.0	0.6	0.6	0.6
40		3.6	11.7	20.7	49.0	83.9	92.7	92.9	92.9	92.7	83.9	49.0	20.7	11.7	3.6			
30	1.3	5.0	14.3	32.0	75.9	84.1	92.4	160.2	160.2	92.4	84.1	75.9	32.0	14.3	5.0	1.3	1.3	1.3
20		6.1	15.7	47.5	78.6	86.8	507.7	1895.6	1895.6	507.7	86.8	78.6	47.5	15.7	6.1			
10	1.7	6.6	16.4	55.2	76.2	147.3	1849.7	7279.4	7279.4	1849.7	147.3	76.2	55.2	16.4	6.6	1.7	1.7	1.7
0		6.6	16.4	55.2	76.2	147.3	1849.7	7279.4	7279.4	1849.7	147.3	76.2	55.2	16.4	6.6			
-10	1.3	6.1	15.7	47.5	78.6	86.8	507.7	1895.6	1895.6	507.7	86.8	78.6	47.5	15.7	6.1	1.3	1.3	1.3
-20		5.0	14.3	32.0	75.9	84.1	92.4	160.2	160.2	92.4	84.1	75.9	32.0	14.3	5.0			
-30	0.6	3.6	11.7	20.7	49.0	83.9	92.7	92.9	92.9	92.7	83.9	49.0	20.7	11.7	3.6	0.6	0.6	0.6
-40		2.0	7.9	16.4	24.0	40.6	64.0	76.8	76.8	64.0	40.6	24.0	16.4	7.9	2.0			
-50	0.2	0.8	3.9	9.6	16.6	22.4	26.2	28.3	28.3	26.2	22.4	16.6	9.6	3.9	0.8	0.2	0.2	0.2
-60		0.3	1.1	3.3	6.7	10.4	13.4	15.1	15.1	13.4	10.4	6.7	3.3	1.1	0.3			
-70	0.1	0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1	0.1	0.1
-80		0.5		1.8		4.6		6.1		4.6		1.8		0.5				
-90	0.1		0.5		1.8		4.6		6.1		4.6		1.8		0.5		0.1	

REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

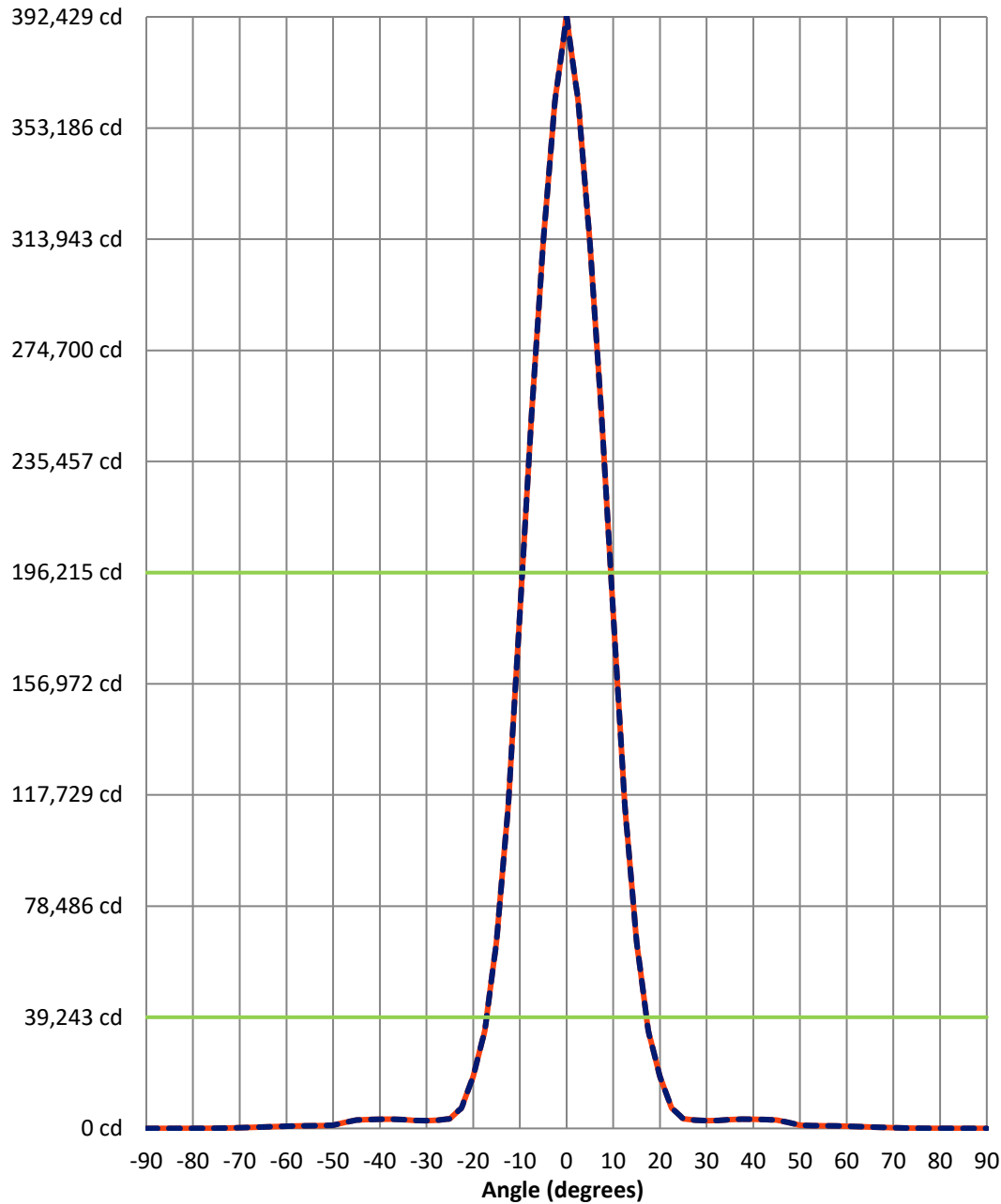
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

Luminous Intensity Plot



Beam:
H Angle: 19°
V Angle: 19°
Lumens: 22912.9
Efficiency: 43.1%

Field:
H Angle: 34.3°
V Angle: 34.3°
Lumens: 42210.6
Efficiency: 79.4%

Spill:
Lumens: 10950.1
Efficiency: 20.6%

— Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-Deg



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.2	4.5
80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.4	4.8	5.3	5.7
77.5°	0.0	0.8	1.6	2.5	3.3	4.0	4.6	5.2	5.8	6.3	7.2
75°	0.0	1.0	2.0	2.9	3.9	4.6	5.3	6.0	6.8	8.1	9.5
72.5°	0.0	1.1	2.3	3.4	4.4	5.2	6.0	7.0	8.6	10.2	11.8
70°	0.0	1.3	2.6	3.9	4.8	5.8	6.8	8.6	10.4	12.3	14.3
67.5°	0.0	1.5	2.9	4.2	5.3	6.3	8.1	10.2	12.3	14.6	17.0
65°	0.0	1.6	3.2	4.5	5.7	7.2	9.5	11.8	14.3	17.0	20.1
62.5°	0.0	1.8	3.5	4.9	6.2	8.2	10.8	13.5	16.4	19.6	24.5
60°	0.0	1.9	3.8	5.2	6.6	9.3	12.1	15.2	18.4	23.5	28.7
57.5°	0.0	2.0	4.0	5.5	7.4	10.4	13.5	16.9	21.5	27.2	39.5
55°	0.0	2.2	4.2	5.8	8.2	11.4	14.9	18.6	24.7	32.8	53.1
52.5°	0.0	2.3	4.4	6.1	9.0	12.4	16.3	21.3	27.9	44.7	66.3
50°	0.0	2.4	4.6	6.4	9.8	13.5	17.7	24.0	33.1	56.3	91.2
47.5°	0.0	2.6	4.8	6.7	10.5	14.6	19.1	26.6	43.0	67.4	116.7
45°	0.0	2.7	5.0	7.3	11.2	15.6	21.3	29.1	52.6	89.3	141.2
42.5°	0.0	2.8	5.1	7.8	11.9	16.6	23.3	34.7	61.8	110.5	172.0
40°	0.0	2.9	5.3	8.3	12.6	17.6	25.3	42.4	73.5	130.7	202.7
37.5°	0.0	3.0	5.4	8.7	13.3	18.5	27.2	49.7	90.6	152.0	231.9
35°	0.0	3.1	5.6	9.1	14.0	19.8	28.9	56.6	106.8	176.8	260.7
32.5°	0.0	3.2	5.7	9.6	14.6	21.1	31.7	63.1	122.1	200.2	289.4
30°	0.0	3.3	5.8	9.9	15.2	22.4	36.9	70.6	136.4	222.1	316.4
27.5°	0.0	3.4	6.0	10.3	15.8	23.6	41.7	82.2	151.4	242.5	341.5
25°	0.0	3.4	6.1	10.6	16.3	24.7	46.1	92.8	168.0	262.5	364.9
22.5°	0.0	3.5	6.2	10.9	16.8	25.7	50.2	102.5	183.1	281.3	390.3
20°	0.0	3.6	6.3	11.2	17.2	26.6	53.8	111.2	196.7	298.4	413.4
17.5°	0.0	3.6	6.3	11.4	17.6	27.4	57.0	119.0	208.9	313.5	433.8
15°	0.0	3.7	6.4	11.6	17.9	28.1	59.8	125.8	219.4	326.7	451.7
12.5°	0.0	3.7	6.5	11.8	18.2	28.7	62.2	131.5	228.4	337.9	466.9
10°	0.0	3.7	6.5	11.9	18.4	29.2	64.2	136.3	235.8	347.2	479.4
7.5°	0.0	3.8	6.6	12.1	18.6	29.6	65.7	139.9	241.6	354.4	489.2
5°	0.0	3.8	6.6	12.1	18.7	29.9	66.8	142.6	245.7	359.6	496.2
2.5°	0.0	3.8	6.6	12.2	18.8	30.0	67.5	144.2	248.2	362.7	500.4
0°	0.0	3.8	6.6	12.2	18.8	30.1	67.7	144.7	249.0	363.7	501.8
-2.5°	0.0	3.8	6.6	12.2	18.8	30.0	67.5	144.2	248.2	362.7	500.4
-5°	0.0	3.8	6.6	12.1	18.7	29.9	66.8	142.6	245.7	359.6	496.2
-7.5°	0.0	3.8	6.6	12.1	18.6	29.6	65.7	139.9	241.6	354.4	489.2
-10°	0.0	3.7	6.5	11.9	18.4	29.2	64.2	136.3	235.8	347.2	479.4
-12.5°	0.0	3.7	6.5	11.8	18.2	28.7	62.2	131.5	228.4	337.9	466.9
-15°	0.0	3.7	6.4	11.6	17.9	28.1	59.8	125.8	219.4	326.7	451.7
-17.5°	0.0	3.6	6.3	11.4	17.6	27.4	57.0	119.0	208.9	313.5	433.8
-20°	0.0	3.6	6.3	11.2	17.2	26.6	53.8	111.2	196.7	298.4	413.4



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.5	6.2	10.9	16.8	25.7	50.2	102.5	183.1	281.3	390.3
-25°	0.0	3.4	6.1	10.6	16.3	24.7	46.1	92.8	168.0	262.5	364.9
-27.5°	0.0	3.4	6.0	10.3	15.8	23.6	41.7	82.2	151.4	242.5	341.5
-30°	0.0	3.3	5.8	9.9	15.2	22.4	36.9	70.6	136.4	222.1	316.4
-32.5°	0.0	3.2	5.7	9.6	14.6	21.1	31.7	63.1	122.1	200.2	289.4
-35°	0.0	3.1	5.6	9.1	14.0	19.8	28.9	56.6	106.8	176.8	260.7
-37.5°	0.0	3.0	5.4	8.7	13.3	18.5	27.2	49.7	90.6	152.0	231.9
-40°	0.0	2.9	5.3	8.3	12.6	17.6	25.3	42.4	73.5	130.7	202.7
-42.5°	0.0	2.8	5.1	7.8	11.9	16.6	23.3	34.7	61.8	110.5	172.0
-45°	0.0	2.7	5.0	7.3	11.2	15.6	21.3	29.1	52.6	89.3	141.2
-47.5°	0.0	2.6	4.8	6.7	10.5	14.6	19.1	26.6	43.0	67.4	116.7
-50°	0.0	2.4	4.6	6.4	9.8	13.5	17.7	24.0	33.1	56.3	91.2
-52.5°	0.0	2.3	4.4	6.1	9.0	12.4	16.3	21.3	27.9	44.7	66.3
-55°	0.0	2.2	4.2	5.8	8.2	11.4	14.9	18.6	24.7	32.8	53.1
-57.5°	0.0	2.0	4.0	5.5	7.4	10.4	13.5	16.9	21.5	27.2	39.5
-60°	0.0	1.9	3.8	5.2	6.6	9.3	12.1	15.2	18.4	23.5	28.7
-62.5°	0.0	1.8	3.5	4.9	6.2	8.2	10.8	13.5	16.4	19.6	24.5
-65°	0.0	1.6	3.2	4.5	5.7	7.2	9.5	11.8	14.3	17.0	20.1
-67.5°	0.0	1.5	2.9	4.2	5.3	6.3	8.1	10.2	12.3	14.6	17.0
-70°	0.0	1.3	2.6	3.9	4.8	5.8	6.8	8.6	10.4	12.3	14.3
-72.5°	0.0	1.1	2.3	3.4	4.4	5.2	6.0	7.0	8.6	10.2	11.8
-75°	0.0	1.0	2.0	2.9	3.9	4.6	5.3	6.0	6.8	8.1	9.5
-77.5°	0.0	0.8	1.6	2.5	3.3	4.0	4.6	5.2	5.8	6.3	7.2
-80°	0.0	0.7	1.3	2.0	2.6	3.3	3.9	4.4	4.8	5.3	5.7
-82.5°	0.0	0.5	1.0	1.5	2.0	2.5	2.9	3.4	3.9	4.2	4.5
-85°	0.0	0.3	0.7	1.0	1.3	1.6	2.0	2.3	2.6	2.9	3.2
-87.5°	0.0	0.2	0.3	0.5	0.7	0.8	1.0	1.1	1.3	1.5	1.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
85°	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4
82.5°	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.3	7.8	8.3	8.7
80°	6.2	6.6	7.4	8.2	9.0	9.8	10.5	11.2	11.9	12.6	13.3
77.5°	8.2	9.3	10.4	11.4	12.4	13.5	14.6	15.6	16.6	17.6	18.5
75°	10.8	12.1	13.5	14.9	16.3	17.7	19.1	21.3	23.3	25.3	27.2
72.5°	13.5	15.2	16.9	18.6	21.3	24.0	26.6	29.1	34.7	42.4	49.7
70°	16.4	18.4	21.5	24.7	27.9	33.1	43.0	52.6	61.8	73.5	90.6
67.5°	19.6	23.5	27.2	32.8	44.7	56.3	67.4	89.3	110.5	130.7	152.0
65°	24.5	28.7	39.5	53.1	66.3	91.2	116.7	141.2	172.0	202.7	231.9
62.5°	29.2	42.9	58.1	78.7	108.5	137.5	172.9	209.7	245.0	281.8	317.3
60°	42.9	59.8	85.7	119.0	153.9	196.7	238.3	281.3	323.9	364.9	411.8
57.5°	58.1	85.7	122.5	163.5	211.1	258.4	307.9	355.9	409.9	463.4	515.0
55°	78.7	119.0	163.5	215.9	269.0	324.0	380.2	442.6	502.8	562.7	620.0
52.5°	108.5	153.9	211.1	269.0	329.4	393.3	462.3	530.2	597.2	660.4	717.8
50°	137.5	196.7	258.4	324.0	393.3	468.9	544.0	618.1	686.5	750.6	807.8
47.5°	172.9	238.3	307.9	380.2	462.3	544.0	625.1	699.6	770.5	831.2	888.7
45°	209.7	281.3	355.9	442.6	530.2	618.1	699.6	777.2	842.9	897.3	917.2
42.5°	245.0	323.9	409.9	502.8	597.2	686.5	770.5	842.9	899.2	921.1	946.5
40°	281.8	364.9	463.4	562.7	660.4	750.6	831.2	897.3	921.1	949.2	979.6
37.5°	317.3	411.8	515.0	620.0	717.8	807.8	888.7	917.2	946.5	979.6	1070.6
35°	351.1	456.4	565.4	672.5	772.5	859.1	909.3	938.4	974.0	1062.3	1340.1
32.5°	386.9	498.6	613.0	720.5	818.5	897.7	926.3	963.0	1037.5	1227.0	1919.8
30°	422.9	539.5	656.9	765.8	861.2	912.7	946.7	996.6	1110.6	1746.8	2419.0
27.5°	456.4	577.7	695.7	804.1	895.5	926.7	967.2	1061.0	1462.5	2219.9	2863.6
25°	487.4	613.0	731.7	838.3	907.6	943.1	996.3	1121.0	1892.1	2610.3	3023.6
22.5°	516.2	645.4	764.6	869.7	918.7	959.4	1047.7	1441.8	2263.6	2959.0	3104.8
20°	542.7	672.5	792.2	894.5	928.7	974.2	1094.5	1778.6	2571.4	3028.3	3159.9
17.5°	566.3	696.7	815.4	902.8	940.3	999.5	1175.0	2081.0	2848.5	3090.9	3200.5
15°	586.9	717.8	835.7	910.0	951.0	1033.4	1420.5	2312.3	2984.2	3139.8	3235.8
12.5°	604.4	735.8	853.0	916.1	960.1	1062.5	1630.8	2505.9	3028.1	3168.5	3245.6
10°	618.9	750.6	867.2	921.2	967.6	1086.4	1804.8	2666.1	3064.5	3192.3	3253.7
7.5°	630.1	762.2	878.4	925.2	973.5	1105.2	1941.2	2792.0	3093.1	3211.1	3260.1
5°	638.2	770.5	886.4	928.0	977.7	1118.7	2039.3	2882.6	3113.7	3224.6	3264.7
2.5°	643.1	775.5	891.2	929.7	980.2	1126.9	2098.4	2937.2	3126.1	3232.8	3267.5
0°	644.7	777.2	892.8	930.3	981.1	1129.6	2118.2	2955.5	3130.3	3235.5	3268.4
-2.5°	643.1	775.5	891.2	929.7	980.2	1126.9	2098.4	2937.2	3126.1	3232.8	3267.5
-5°	638.2	770.5	886.4	928.0	977.7	1118.7	2039.3	2882.6	3113.7	3224.6	3264.7
-7.5°	630.1	762.2	878.4	925.2	973.5	1105.2	1941.2	2792.0	3093.1	3211.1	3260.1
-10°	618.9	750.6	867.2	921.2	967.6	1086.4	1804.8	2666.1	3064.5	3192.3	3253.7
-12.5°	604.4	735.8	853.0	916.1	960.1	1062.5	1630.8	2505.9	3028.1	3168.5	3245.6
-15°	586.9	717.8	835.7	910.0	951.0	1033.4	1420.5	2312.3	2984.2	3139.8	3235.8
-17.5°	566.3	696.7	815.4	902.8	940.3	999.5	1175.0	2081.0	2848.5	3090.9	3200.5
-20°	542.7	672.5	792.2	894.5	928.7	974.2	1094.5	1778.6	2571.4	3028.3	3159.9



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	516.2	645.4	764.6	869.7	918.7	959.4	1047.7	1441.8	2263.6	2959.0	3104.8
-25°	487.4	613.0	731.7	838.3	907.6	943.1	996.3	1121.0	1892.1	2610.3	3023.6
-27.5°	456.4	577.7	695.7	804.1	895.5	926.7	967.2	1061.0	1462.5	2219.9	2863.6
-30°	422.9	539.5	656.9	765.8	861.2	912.7	946.7	996.6	1110.6	1746.8	2419.0
-32.5°	386.9	498.6	613.0	720.5	818.5	897.7	926.3	963.0	1037.5	1227.0	1919.8
-35°	351.1	456.4	565.4	672.5	772.5	859.1	909.3	938.4	974.0	1062.3	1340.1
-37.5°	317.3	411.8	515.0	620.0	717.8	807.8	888.7	917.2	946.5	979.6	1070.6
-40°	281.8	364.9	463.4	562.7	660.4	750.6	831.2	897.3	921.1	949.2	979.6
-42.5°	245.0	323.9	409.9	502.8	597.2	686.5	770.5	842.9	899.2	921.1	946.5
-45°	209.7	281.3	355.9	442.6	530.2	618.1	699.6	777.2	842.9	897.3	917.2
-47.5°	172.9	238.3	307.9	380.2	462.3	544.0	625.1	699.6	770.5	831.2	888.7
-50°	137.5	196.7	258.4	324.0	393.3	468.9	544.0	618.1	686.5	750.6	807.8
-52.5°	108.5	153.9	211.1	269.0	329.4	393.3	462.3	530.2	597.2	660.4	717.8
-55°	78.7	119.0	163.5	215.9	269.0	324.0	380.2	442.6	502.8	562.7	620.0
-57.5°	58.1	85.7	122.5	163.5	211.1	258.4	307.9	355.9	409.9	463.4	515.0
-60°	42.9	59.8	85.7	119.0	153.9	196.7	238.3	281.3	323.9	364.9	411.8
-62.5°	29.2	42.9	58.1	78.7	108.5	137.5	172.9	209.7	245.0	281.8	317.3
-65°	24.5	28.7	39.5	53.1	66.3	91.2	116.7	141.2	172.0	202.7	231.9
-67.5°	19.6	23.5	27.2	32.8	44.7	56.3	67.4	89.3	110.5	130.7	152.0
-70°	16.4	18.4	21.5	24.7	27.9	33.1	43.0	52.6	61.8	73.5	90.6
-72.5°	13.5	15.2	16.9	18.6	21.3	24.0	26.6	29.1	34.7	42.4	49.7
-75°	10.8	12.1	13.5	14.9	16.3	17.7	19.1	21.3	23.3	25.3	27.2
-77.5°	8.2	9.3	10.4	11.4	12.4	13.5	14.6	15.6	16.6	17.6	18.5
-80°	6.2	6.6	7.4	8.2	9.0	9.8	10.5	11.2	11.9	12.6	13.3
-82.5°	4.9	5.2	5.5	5.8	6.1	6.4	6.7	7.3	7.8	8.3	8.7
-85°	3.5	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.1	5.3	5.4
-87.5°	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
85°	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5
82.5°	9.1	9.6	9.9	10.3	10.6	10.9	11.2	11.4	11.6	11.8	11.9
80°	14.0	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.4
77.5°	19.8	21.1	22.4	23.6	24.7	25.7	26.6	27.4	28.1	28.7	29.2
75°	28.9	31.7	36.9	41.7	46.1	50.2	53.8	57.0	59.8	62.2	64.2
72.5°	56.6	63.1	70.6	82.2	92.8	102.5	111.2	119.0	125.8	131.5	136.3
70°	106.8	122.1	136.4	151.4	168.0	183.1	196.7	208.9	219.4	228.4	235.8
67.5°	176.8	200.2	222.1	242.5	262.5	281.3	298.4	313.5	326.7	337.9	347.2
65°	260.7	289.4	316.4	341.5	364.9	390.3	413.4	433.8	451.7	466.9	479.4
62.5°	351.1	386.9	422.9	456.4	487.4	516.2	542.7	566.3	586.9	604.4	618.9
60°	456.4	498.6	539.5	577.7	613.0	645.4	672.5	696.7	717.8	735.8	750.6
57.5°	565.4	613.0	656.9	695.7	731.7	764.6	792.2	815.4	835.7	853.0	867.2
55°	672.5	720.5	765.8	804.1	838.3	869.7	894.5	902.8	910.0	916.1	921.2
52.5°	772.5	818.5	861.2	895.5	907.6	918.7	928.7	940.3	951.0	960.1	967.6
50°	859.1	897.7	912.7	926.7	943.1	959.4	974.2	999.5	1033.4	1062.5	1086.4
47.5°	909.3	926.3	946.7	967.2	996.3	1047.7	1094.5	1175.0	1420.5	1630.8	1804.8
45°	938.4	963.0	996.6	1061.0	1121.0	1441.8	1778.6	2081.0	2312.3	2505.9	2666.1
42.5°	974.0	1037.5	1110.6	1462.5	1892.1	2263.6	2571.4	2848.5	2984.2	3028.1	3064.5
40°	1062.3	1227.0	1746.8	2219.9	2610.3	2959.0	3028.3	3090.9	3139.8	3168.5	3192.3
37.5°	1340.1	1919.8	2419.0	2863.6	3023.6	3104.8	3159.9	3200.5	3235.8	3245.6	3253.7
35°	1977.8	2519.7	2968.6	3067.5	3148.7	3201.1	3239.9	3253.6	3265.8	3230.9	3189.3
32.5°	2519.7	2979.4	3089.7	3169.3	3229.2	3251.1	3267.4	3203.4	3141.1	3062.4	2974.9
30°	2968.6	3089.7	3176.2	3238.0	3258.0	3228.7	3146.3	3031.6	2901.3	2807.6	2783.3
27.5°	3067.5	3169.3	3238.0	3260.3	3206.1	3109.3	2938.6	2806.1	2770.1	2738.5	2803.3
25°	3148.7	3229.2	3258.0	3206.1	3086.6	2891.2	2787.4	2744.2	2819.9	2904.4	3062.3
22.5°	3201.1	3251.1	3228.7	3109.3	2891.2	2781.0	2756.7	2870.7	3058.7	3305.5	4162.4
20°	3239.9	3267.4	3146.3	2938.6	2787.4	2756.7	2888.0	3155.3	3705.6	5799.6	8277.5
17.5°	3253.6	3203.4	3031.6	2806.1	2744.2	2870.7	3155.3	4105.8	6648.4	12160.4	17975.3
15°	3265.8	3141.1	2901.3	2770.1	2819.9	3058.7	3705.6	6648.4	13492.2	22006.3	31566.4
12.5°	3230.9	3062.4	2807.6	2738.5	2904.4	3305.5	5799.6	12160.4	22006.3	33888.4	54014.6
10°	3189.3	2974.9	2783.3	2803.3	3062.3	4162.4	8277.5	17975.3	31566.4	54014.6	81339.6
7.5°	3156.4	2905.5	2763.9	2855.5	3216.0	5482.4	12538.9	24870.2	44262.0	73821.5	114213.2
5°	3132.6	2855.2	2749.8	2893.5	3328.7	6455.6	15704.9	30168.3	56089.7	93814.2	147690.9
2.5°	3118.2	2824.7	2741.3	2916.7	3397.5	7052.6	17658.5	33464.4	63536.8	108228.8	172736.5
0°	3113.4	2814.5	2738.4	2924.5	3420.7	7253.9	18319.3	34584.3	66084.4	113698.3	181682.8
-2.5°	3118.2	2824.7	2741.3	2916.7	3397.5	7052.6	17658.5	33464.4	63536.8	108228.8	172736.5
-5°	3132.6	2855.2	2749.8	2893.5	3328.7	6455.6	15704.9	30168.3	56089.7	93814.2	147690.9
-7.5°	3156.4	2905.5	2763.9	2855.5	3216.0	5482.4	12538.9	24870.2	44262.0	73821.5	114213.2
-10°	3189.3	2974.9	2783.3	2803.3	3062.3	4162.4	8277.5	17975.3	31566.4	54014.6	81339.6
-12.5°	3230.9	3062.4	2807.6	2738.5	2904.4	3305.5	5799.6	12160.4	22006.3	33888.4	54014.6
-15°	3265.8	3141.1	2901.3	2770.1	2819.9	3058.7	3705.6	6648.4	13492.2	22006.3	31566.4
-17.5°	3253.6	3203.4	3031.6	2806.1	2744.2	2870.7	3155.3	4105.8	6648.4	12160.4	17975.3
-20°	3239.9	3267.4	3146.3	2938.6	2787.4	2756.7	2888.0	3155.3	3705.6	5799.6	8277.5



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	3201.1	3251.1	3228.7	3109.3	2891.2	2781.0	2756.7	2870.7	3058.7	3305.5	4162.4
-25°	3148.7	3229.2	3258.0	3206.1	3086.6	2891.2	2787.4	2744.2	2819.9	2904.4	3062.3
-27.5°	3067.5	3169.3	3238.0	3260.3	3206.1	3109.3	2938.6	2806.1	2770.1	2738.5	2803.3
-30°	2968.6	3089.7	3176.2	3238.0	3258.0	3228.7	3146.3	3031.6	2901.3	2807.6	2783.3
-32.5°	2519.7	2979.4	3089.7	3169.3	3229.2	3251.1	3267.4	3203.4	3141.1	3062.4	2974.9
-35°	1977.8	2519.7	2968.6	3067.5	3148.7	3201.1	3239.9	3253.6	3265.8	3230.9	3189.3
-37.5°	1340.1	1919.8	2419.0	2863.6	3023.6	3104.8	3159.9	3200.5	3235.8	3245.6	3253.7
-40°	1062.3	1227.0	1746.8	2219.9	2610.3	2959.0	3028.3	3090.9	3139.8	3168.5	3192.3
-42.5°	974.0	1037.5	1110.6	1462.5	1892.1	2263.6	2571.4	2848.5	2984.2	3028.1	3064.5
-45°	938.4	963.0	996.6	1061.0	1121.0	1441.8	1778.6	2081.0	2312.3	2505.9	2666.1
-47.5°	909.3	926.3	946.7	967.2	996.3	1047.7	1094.5	1175.0	1420.5	1630.8	1804.8
-50°	859.1	897.7	912.7	926.7	943.1	959.4	974.2	999.5	1033.4	1062.5	1086.4
-52.5°	772.5	818.5	861.2	895.5	907.6	918.7	928.7	940.3	951.0	960.1	967.6
-55°	672.5	720.5	765.8	804.1	838.3	869.7	894.5	902.8	910.0	916.1	921.2
-57.5°	565.4	613.0	656.9	695.7	731.7	764.6	792.2	815.4	835.7	853.0	867.2
-60°	456.4	498.6	539.5	577.7	613.0	645.4	672.5	696.7	717.8	735.8	750.6
-62.5°	351.1	386.9	422.9	456.4	487.4	516.2	542.7	566.3	586.9	604.4	618.9
-65°	260.7	289.4	316.4	341.5	364.9	390.3	413.4	433.8	451.7	466.9	479.4
-67.5°	176.8	200.2	222.1	242.5	262.5	281.3	298.4	313.5	326.7	337.9	347.2
-70°	106.8	122.1	136.4	151.4	168.0	183.1	196.7	208.9	219.4	228.4	235.8
-72.5°	56.6	63.1	70.6	82.2	92.8	102.5	111.2	119.0	125.8	131.5	136.3
-75°	28.9	31.7	36.9	41.7	46.1	50.2	53.8	57.0	59.8	62.2	64.2
-77.5°	19.8	21.1	22.4	23.6	24.7	25.7	26.6	27.4	28.1	28.7	29.2
-80°	14.0	14.6	15.2	15.8	16.3	16.8	17.2	17.6	17.9	18.2	18.4
-82.5°	9.1	9.6	9.9	10.3	10.6	10.9	11.2	11.4	11.6	11.8	11.9
-85°	5.6	5.7	5.8	6.0	6.1	6.2	6.3	6.3	6.4	6.5	6.5
-87.5°	3.1	3.2	3.3	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	11.9	11.8	11.6	11.4
80°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
77.5°	29.6	29.9	30.0	30.1	30.0	29.9	29.6	29.2	28.7	28.1	27.4
75°	65.7	66.8	67.5	67.7	67.5	66.8	65.7	64.2	62.2	59.8	57.0
72.5°	139.9	142.6	144.2	144.7	144.2	142.6	139.9	136.3	131.5	125.8	119.0
70°	241.6	245.7	248.2	249.0	248.2	245.7	241.6	235.8	228.4	219.4	208.9
67.5°	354.4	359.6	362.7	363.7	362.7	359.6	354.4	347.2	337.9	326.7	313.5
65°	489.2	496.2	500.4	501.8	500.4	496.2	489.2	479.4	466.9	451.7	433.8
62.5°	630.1	638.2	643.1	644.7	643.1	638.2	630.1	618.9	604.4	586.9	566.3
60°	762.2	770.5	775.5	777.2	775.5	770.5	762.2	750.6	735.8	717.8	696.7
57.5°	878.4	886.4	891.2	892.8	891.2	886.4	878.4	867.2	853.0	835.7	815.4
55°	925.2	928.0	929.7	930.3	929.7	928.0	925.2	921.2	916.1	910.0	902.8
52.5°	973.5	977.7	980.2	981.1	980.2	977.7	973.5	967.6	960.1	951.0	940.3
50°	1105.2	1118.7	1126.9	1129.6	1126.9	1118.7	1105.2	1086.4	1062.5	1033.4	999.5
47.5°	1941.2	2039.3	2098.4	2118.2	2098.4	2039.3	1941.2	1804.8	1630.8	1420.5	1175.0
45°	2792.0	2882.6	2937.2	2955.5	2937.2	2882.6	2792.0	2666.1	2505.9	2312.3	2081.0
42.5°	3093.1	3113.7	3126.1	3130.3	3126.1	3113.7	3093.1	3064.5	3028.1	2984.2	2848.5
40°	3211.1	3224.6	3232.8	3235.5	3232.8	3224.6	3211.1	3192.3	3168.5	3139.8	3090.9
37.5°	3260.1	3264.7	3267.5	3268.4	3267.5	3264.7	3260.1	3253.7	3245.6	3235.8	3200.5
35°	3156.4	3132.6	3118.2	3113.4	3118.2	3132.6	3156.4	3189.3	3230.9	3265.8	3253.6
32.5°	2905.5	2855.2	2824.7	2814.5	2824.7	2855.2	2905.5	2974.9	3062.4	3141.1	3203.4
30°	2763.9	2749.8	2741.3	2738.4	2741.3	2749.8	2763.9	2783.3	2807.6	2901.3	3031.6
27.5°	2855.5	2893.5	2916.7	2924.5	2916.7	2893.5	2855.5	2803.3	2738.5	2770.1	2806.1
25°	3216.0	3328.7	3397.5	3420.7	3397.5	3328.7	3216.0	3062.3	2904.4	2819.9	2744.2
22.5°	5482.4	6455.6	7052.6	7253.9	7052.6	6455.6	5482.4	4162.4	3305.5	3058.7	2870.7
20°	12538.9	15704.9	17658.5	18319.3	17658.5	15704.9	12538.9	8277.5	5799.6	3705.6	3155.3
17.5°	24870.2	30168.3	33464.4	34584.3	33464.4	30168.3	24870.2	17975.3	12160.4	6648.4	4105.8
15°	44262.0	56089.7	63536.8	66084.4	63536.8	56089.7	44262.0	31566.4	22006.3	13492.2	6648.4
12.5°	73821.5	93814.2	108228.8	113698.3	108228.8	93814.2	73821.5	54014.6	33888.4	22006.3	12160.4
10°	114213.2	147690.9	172736.5	181682.8	172736.5	147690.9	114213.2	81339.6	54014.6	31566.4	17975.3
7.5°	164317.1	209312.4	240928.6	251693.0	240928.6	209312.4	164317.1	114213.2	73821.5	44262.0	24870.2
5°	209312.4	263257.7	299339.6	312687.3	299339.6	263257.7	209312.4	147690.9	93814.2	56089.7	30168.3
2.5°	240928.6	299339.6	342153.6	362454.6	342153.6	299339.6	240928.6	172736.5	108228.8	63536.8	33464.4
0°	251693.0	312687.3	362454.6	392429.0	362454.6	312687.3	251693.0	181682.8	113698.3	66084.4	34584.3
-2.5°	240928.6	299339.6	342153.6	362454.6	342153.6	299339.6	240928.6	172736.5	108228.8	63536.8	33464.4
-5°	209312.4	263257.7	299339.6	312687.3	299339.6	263257.7	209312.4	147690.9	93814.2	56089.7	30168.3
-7.5°	164317.1	209312.4	240928.6	251693.0	240928.6	209312.4	164317.1	114213.2	73821.5	44262.0	24870.2
-10°	114213.2	147690.9	172736.5	181682.8	172736.5	147690.9	114213.2	81339.6	54014.6	31566.4	17975.3
-12.5°	73821.5	93814.2	108228.8	113698.3	108228.8	93814.2	73821.5	54014.6	33888.4	22006.3	12160.4
-15°	44262.0	56089.7	63536.8	66084.4	63536.8	56089.7	44262.0	31566.4	22006.3	13492.2	6648.4
-17.5°	24870.2	30168.3	33464.4	34584.3	33464.4	30168.3	24870.2	17975.3	12160.4	6648.4	4105.8
-20°	12538.9	15704.9	17658.5	18319.3	17658.5	15704.9	12538.9	8277.5	5799.6	3705.6	3155.3



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	5482.4	6455.6	7052.6	7253.9	7052.6	6455.6	5482.4	4162.4	3305.5	3058.7	2870.7
-25°	3216.0	3328.7	3397.5	3420.7	3397.5	3328.7	3216.0	3062.3	2904.4	2819.9	2744.2
-27.5°	2855.5	2893.5	2916.7	2924.5	2916.7	2893.5	2855.5	2803.3	2738.5	2770.1	2806.1
-30°	2763.9	2749.8	2741.3	2738.4	2741.3	2749.8	2763.9	2783.3	2807.6	2901.3	3031.6
-32.5°	2905.5	2855.2	2824.7	2814.5	2824.7	2855.2	2905.5	2974.9	3062.4	3141.1	3203.4
-35°	3156.4	3132.6	3118.2	3113.4	3118.2	3132.6	3156.4	3189.3	3230.9	3265.8	3253.6
-37.5°	3260.1	3264.7	3267.5	3268.4	3267.5	3264.7	3260.1	3253.7	3245.6	3235.8	3200.5
-40°	3211.1	3224.6	3232.8	3235.5	3232.8	3224.6	3211.1	3192.3	3168.5	3139.8	3090.9
-42.5°	3093.1	3113.7	3126.1	3130.3	3126.1	3113.7	3093.1	3064.5	3028.1	2984.2	2848.5
-45°	2792.0	2882.6	2937.2	2955.5	2937.2	2882.6	2792.0	2666.1	2505.9	2312.3	2081.0
-47.5°	1941.2	2039.3	2098.4	2118.2	2098.4	2039.3	1941.2	1804.8	1630.8	1420.5	1175.0
-50°	1105.2	1118.7	1126.9	1129.6	1126.9	1118.7	1105.2	1086.4	1062.5	1033.4	999.5
-52.5°	973.5	977.7	980.2	981.1	980.2	977.7	973.5	967.6	960.1	951.0	940.3
-55°	925.2	928.0	929.7	930.3	929.7	928.0	925.2	921.2	916.1	910.0	902.8
-57.5°	878.4	886.4	891.2	892.8	891.2	886.4	878.4	867.2	853.0	835.7	815.4
-60°	762.2	770.5	775.5	777.2	775.5	770.5	762.2	750.6	735.8	717.8	696.7
-62.5°	630.1	638.2	643.1	644.7	643.1	638.2	630.1	618.9	604.4	586.9	566.3
-65°	489.2	496.2	500.4	501.8	500.4	496.2	489.2	479.4	466.9	451.7	433.8
-67.5°	354.4	359.6	362.7	363.7	362.7	359.6	354.4	347.2	337.9	326.7	313.5
-70°	241.6	245.7	248.2	249.0	248.2	245.7	241.6	235.8	228.4	219.4	208.9
-72.5°	139.9	142.6	144.2	144.7	144.2	142.6	139.9	136.3	131.5	125.8	119.0
-75°	65.7	66.8	67.5	67.7	67.5	66.8	65.7	64.2	62.2	59.8	57.0
-77.5°	29.6	29.9	30.0	30.1	30.0	29.9	29.6	29.2	28.7	28.1	27.4
-80°	18.6	18.7	18.8	18.8	18.8	18.7	18.6	18.4	18.2	17.9	17.6
-82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	11.9	11.8	11.6	11.4
-85°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.4	6.3
-87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
85°	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.1	5.0
82.5°	11.2	10.9	10.6	10.3	9.9	9.6	9.1	8.7	8.3	7.8	7.3
80°	17.2	16.8	16.3	15.8	15.2	14.6	14.0	13.3	12.6	11.9	11.2
77.5°	26.6	25.7	24.7	23.6	22.4	21.1	19.8	18.5	17.6	16.6	15.6
75°	53.8	50.2	46.1	41.7	36.9	31.7	28.9	27.2	25.3	23.3	21.3
72.5°	111.2	102.5	92.8	82.2	70.6	63.1	56.6	49.7	42.4	34.7	29.1
70°	196.7	183.1	168.0	151.4	136.4	122.1	106.8	90.6	73.5	61.8	52.6
67.5°	298.4	281.3	262.5	242.5	222.1	200.2	176.8	152.0	130.7	110.5	89.3
65°	413.4	390.3	364.9	341.5	316.4	289.4	260.7	231.9	202.7	172.0	141.2
62.5°	542.7	516.2	487.4	456.4	422.9	386.9	351.1	317.3	281.8	245.0	209.7
60°	672.5	645.4	613.0	577.7	539.5	498.6	456.4	411.8	364.9	323.9	281.3
57.5°	792.2	764.6	731.7	695.7	656.9	613.0	565.4	515.0	463.4	409.9	355.9
55°	894.5	869.7	838.3	804.1	765.8	720.5	672.5	620.0	562.7	502.8	442.6
52.5°	928.7	918.7	907.6	895.5	861.2	818.5	772.5	717.8	660.4	597.2	530.2
50°	974.2	959.4	943.1	926.7	912.7	897.7	859.1	807.8	750.6	686.5	618.1
47.5°	1094.5	1047.7	996.3	967.2	946.7	926.3	909.3	888.7	831.2	770.5	699.6
45°	1778.6	1441.8	1121.0	1061.0	996.6	963.0	938.4	917.2	897.3	842.9	777.2
42.5°	2571.4	2263.6	1892.1	1462.5	1110.6	1037.5	974.0	946.5	921.1	899.2	842.9
40°	3028.3	2959.0	2610.3	2219.9	1746.8	1227.0	1062.3	979.6	949.2	921.1	897.3
37.5°	3159.9	3104.8	3023.6	2863.6	2419.0	1919.8	1340.1	1070.6	979.6	946.5	917.2
35°	3239.9	3201.1	3148.7	3067.5	2968.6	2519.7	1977.8	1340.1	1062.3	974.0	938.4
32.5°	3267.4	3251.1	3229.2	3169.3	3089.7	2979.4	2519.7	1919.8	1227.0	1037.5	963.0
30°	3146.3	3228.7	3258.0	3238.0	3176.2	3089.7	2968.6	2419.0	1746.8	1110.6	996.6
27.5°	2938.6	3109.3	3206.1	3260.3	3238.0	3169.3	3067.5	2863.6	2219.9	1462.5	1061.0
25°	2787.4	2891.2	3086.6	3206.1	3258.0	3229.2	3148.7	3023.6	2610.3	1892.1	1121.0
22.5°	2756.7	2781.0	2891.2	3109.3	3228.7	3251.1	3201.1	3104.8	2959.0	2263.6	1441.8
20°	2888.0	2756.7	2787.4	2938.6	3146.3	3267.4	3239.9	3159.9	3028.3	2571.4	1778.6
17.5°	3155.3	2870.7	2744.2	2806.1	3031.6	3203.4	3253.6	3200.5	3090.9	2848.5	2081.0
15°	3705.6	3058.7	2819.9	2770.1	2901.3	3141.1	3265.8	3235.8	3139.8	2984.2	2312.3
12.5°	5799.6	3305.5	2904.4	2738.5	2807.6	3062.4	3230.9	3245.6	3168.5	3028.1	2505.9
10°	8277.5	4162.4	3062.3	2803.3	2783.3	2974.9	3189.3	3253.7	3192.3	3064.5	2666.1
7.5°	12538.9	5482.4	3216.0	2855.5	2763.9	2905.5	3156.4	3260.1	3211.1	3093.1	2792.0
5°	15704.9	6455.6	3328.7	2893.5	2749.8	2855.2	3132.6	3264.7	3224.6	3113.7	2882.6
2.5°	17658.5	7052.6	3397.5	2916.7	2741.3	2824.7	3118.2	3267.5	3232.8	3126.1	2937.2
0°	18319.3	7253.9	3420.7	2924.5	2738.4	2814.5	3113.4	3268.4	3235.5	3130.3	2955.5
-2.5°	17658.5	7052.6	3397.5	2916.7	2741.3	2824.7	3118.2	3267.5	3232.8	3126.1	2937.2
-5°	15704.9	6455.6	3328.7	2893.5	2749.8	2855.2	3132.6	3264.7	3224.6	3113.7	2882.6
-7.5°	12538.9	5482.4	3216.0	2855.5	2763.9	2905.5	3156.4	3260.1	3211.1	3093.1	2792.0
-10°	8277.5	4162.4	3062.3	2803.3	2783.3	2974.9	3189.3	3253.7	3192.3	3064.5	2666.1
-12.5°	5799.6	3305.5	2904.4	2738.5	2807.6	3062.4	3230.9	3245.6	3168.5	3028.1	2505.9
-15°	3705.6	3058.7	2819.9	2770.1	2901.3	3141.1	3265.8	3235.8	3139.8	2984.2	2312.3
-17.5°	3155.3	2870.7	2744.2	2806.1	3031.6	3203.4	3253.6	3200.5	3090.9	2848.5	2081.0
-20°	2888.0	2756.7	2787.4	2938.6	3146.3	3267.4	3239.9	3159.9	3028.3	2571.4	1778.6



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2756.7	2781.0	2891.2	3109.3	3228.7	3251.1	3201.1	3104.8	2959.0	2263.6	1441.8
-25°	2787.4	2891.2	3086.6	3206.1	3258.0	3229.2	3148.7	3023.6	2610.3	1892.1	1121.0
-27.5°	2938.6	3109.3	3206.1	3260.3	3238.0	3169.3	3067.5	2863.6	2219.9	1462.5	1061.0
-30°	3146.3	3228.7	3258.0	3238.0	3176.2	3089.7	2968.6	2419.0	1746.8	1110.6	996.6
-32.5°	3267.4	3251.1	3229.2	3169.3	3089.7	2979.4	2519.7	1919.8	1227.0	1037.5	963.0
-35°	3239.9	3201.1	3148.7	3067.5	2968.6	2519.7	1977.8	1340.1	1062.3	974.0	938.4
-37.5°	3159.9	3104.8	3023.6	2863.6	2419.0	1919.8	1340.1	1070.6	979.6	946.5	917.2
-40°	3028.3	2959.0	2610.3	2219.9	1746.8	1227.0	1062.3	979.6	949.2	921.1	897.3
-42.5°	2571.4	2263.6	1892.1	1462.5	1110.6	1037.5	974.0	946.5	921.1	899.2	842.9
-45°	1778.6	1441.8	1121.0	1061.0	996.6	963.0	938.4	917.2	897.3	842.9	777.2
-47.5°	1094.5	1047.7	996.3	967.2	946.7	926.3	909.3	888.7	831.2	770.5	699.6
-50°	974.2	959.4	943.1	926.7	912.7	897.7	859.1	807.8	750.6	686.5	618.1
-52.5°	928.7	918.7	907.6	895.5	861.2	818.5	772.5	717.8	660.4	597.2	530.2
-55°	894.5	869.7	838.3	804.1	765.8	720.5	672.5	620.0	562.7	502.8	442.6
-57.5°	792.2	764.6	731.7	695.7	656.9	613.0	565.4	515.0	463.4	409.9	355.9
-60°	672.5	645.4	613.0	577.7	539.5	498.6	456.4	411.8	364.9	323.9	281.3
-62.5°	542.7	516.2	487.4	456.4	422.9	386.9	351.1	317.3	281.8	245.0	209.7
-65°	413.4	390.3	364.9	341.5	316.4	289.4	260.7	231.9	202.7	172.0	141.2
-67.5°	298.4	281.3	262.5	242.5	222.1	200.2	176.8	152.0	130.7	110.5	89.3
-70°	196.7	183.1	168.0	151.4	136.4	122.1	106.8	90.6	73.5	61.8	52.6
-72.5°	111.2	102.5	92.8	82.2	70.6	63.1	56.6	49.7	42.4	34.7	29.1
-75°	53.8	50.2	46.1	41.7	36.9	31.7	28.9	27.2	25.3	23.3	21.3
-77.5°	26.6	25.7	24.7	23.6	22.4	21.1	19.8	18.5	17.6	16.6	15.6
-80°	17.2	16.8	16.3	15.8	15.2	14.6	14.0	13.3	12.6	11.9	11.2
-82.5°	11.2	10.9	10.6	10.3	9.9	9.6	9.1	8.7	8.3	7.8	7.3
-85°	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.4	5.3	5.1	5.0
-87.5°	3.6	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
85°	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.3
82.5°	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.9	3.4
80°	10.5	9.8	9.0	8.2	7.4	6.6	6.2	5.7	5.3	4.8	4.4
77.5°	14.6	13.5	12.4	11.4	10.4	9.3	8.2	7.2	6.3	5.8	5.2
75°	19.1	17.7	16.3	14.9	13.5	12.1	10.8	9.5	8.1	6.8	6.0
72.5°	26.6	24.0	21.3	18.6	16.9	15.2	13.5	11.8	10.2	8.6	7.0
70°	43.0	33.1	27.9	24.7	21.5	18.4	16.4	14.3	12.3	10.4	8.6
67.5°	67.4	56.3	44.7	32.8	27.2	23.5	19.6	17.0	14.6	12.3	10.2
65°	116.7	91.2	66.3	53.1	39.5	28.7	24.5	20.1	17.0	14.3	11.8
62.5°	172.9	137.5	108.5	78.7	58.1	42.9	29.2	24.5	19.6	16.4	13.5
60°	238.3	196.7	153.9	119.0	85.7	59.8	42.9	28.7	23.5	18.4	15.2
57.5°	307.9	258.4	211.1	163.5	122.5	85.7	58.1	39.5	27.2	21.5	16.9
55°	380.2	324.0	269.0	215.9	163.5	119.0	78.7	53.1	32.8	24.7	18.6
52.5°	462.3	393.3	329.4	269.0	211.1	153.9	108.5	66.3	44.7	27.9	21.3
50°	544.0	468.9	393.3	324.0	258.4	196.7	137.5	91.2	56.3	33.1	24.0
47.5°	625.1	544.0	462.3	380.2	307.9	238.3	172.9	116.7	67.4	43.0	26.6
45°	699.6	618.1	530.2	442.6	355.9	281.3	209.7	141.2	89.3	52.6	29.1
42.5°	770.5	686.5	597.2	502.8	409.9	323.9	245.0	172.0	110.5	61.8	34.7
40°	831.2	750.6	660.4	562.7	463.4	364.9	281.8	202.7	130.7	73.5	42.4
37.5°	888.7	807.8	717.8	620.0	515.0	411.8	317.3	231.9	152.0	90.6	49.7
35°	909.3	859.1	772.5	672.5	565.4	456.4	351.1	260.7	176.8	106.8	56.6
32.5°	926.3	897.7	818.5	720.5	613.0	498.6	386.9	289.4	200.2	122.1	63.1
30°	946.7	912.7	861.2	765.8	656.9	539.5	422.9	316.4	222.1	136.4	70.6
27.5°	967.2	926.7	895.5	804.1	695.7	577.7	456.4	341.5	242.5	151.4	82.2
25°	996.3	943.1	907.6	838.3	731.7	613.0	487.4	364.9	262.5	168.0	92.8
22.5°	1047.7	959.4	918.7	869.7	764.6	645.4	516.2	390.3	281.3	183.1	102.5
20°	1094.5	974.2	928.7	894.5	792.2	672.5	542.7	413.4	298.4	196.7	111.2
17.5°	1175.0	999.5	940.3	902.8	815.4	696.7	566.3	433.8	313.5	208.9	119.0
15°	1420.5	1033.4	951.0	910.0	835.7	717.8	586.9	451.7	326.7	219.4	125.8
12.5°	1630.8	1062.5	960.1	916.1	853.0	735.8	604.4	466.9	337.9	228.4	131.5
10°	1804.8	1086.4	967.6	921.2	867.2	750.6	618.9	479.4	347.2	235.8	136.3
7.5°	1941.2	1105.2	973.5	925.2	878.4	762.2	630.1	489.2	354.4	241.6	139.9
5°	2039.3	1118.7	977.7	928.0	886.4	770.5	638.2	496.2	359.6	245.7	142.6
2.5°	2098.4	1126.9	980.2	929.7	891.2	775.5	643.1	500.4	362.7	248.2	144.2
0°	2118.2	1129.6	981.1	930.3	892.8	777.2	644.7	501.8	363.7	249.0	144.7
-2.5°	2098.4	1126.9	980.2	929.7	891.2	775.5	643.1	500.4	362.7	248.2	144.2
-5°	2039.3	1118.7	977.7	928.0	886.4	770.5	638.2	496.2	359.6	245.7	142.6
-7.5°	1941.2	1105.2	973.5	925.2	878.4	762.2	630.1	489.2	354.4	241.6	139.9
-10°	1804.8	1086.4	967.6	921.2	867.2	750.6	618.9	479.4	347.2	235.8	136.3
-12.5°	1630.8	1062.5	960.1	916.1	853.0	735.8	604.4	466.9	337.9	228.4	131.5
-15°	1420.5	1033.4	951.0	910.0	835.7	717.8	586.9	451.7	326.7	219.4	125.8
-17.5°	1175.0	999.5	940.3	902.8	815.4	696.7	566.3	433.8	313.5	208.9	119.0
-20°	1094.5	974.2	928.7	894.5	792.2	672.5	542.7	413.4	298.4	196.7	111.2



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1047.7	959.4	918.7	869.7	764.6	645.4	516.2	390.3	281.3	183.1	102.5
-25°	996.3	943.1	907.6	838.3	731.7	613.0	487.4	364.9	262.5	168.0	92.8
-27.5°	967.2	926.7	895.5	804.1	695.7	577.7	456.4	341.5	242.5	151.4	82.2
-30°	946.7	912.7	861.2	765.8	656.9	539.5	422.9	316.4	222.1	136.4	70.6
-32.5°	926.3	897.7	818.5	720.5	613.0	498.6	386.9	289.4	200.2	122.1	63.1
-35°	909.3	859.1	772.5	672.5	565.4	456.4	351.1	260.7	176.8	106.8	56.6
-37.5°	888.7	807.8	717.8	620.0	515.0	411.8	317.3	231.9	152.0	90.6	49.7
-40°	831.2	750.6	660.4	562.7	463.4	364.9	281.8	202.7	130.7	73.5	42.4
-42.5°	770.5	686.5	597.2	502.8	409.9	323.9	245.0	172.0	110.5	61.8	34.7
-45°	699.6	618.1	530.2	442.6	355.9	281.3	209.7	141.2	89.3	52.6	29.1
-47.5°	625.1	544.0	462.3	380.2	307.9	238.3	172.9	116.7	67.4	43.0	26.6
-50°	544.0	468.9	393.3	324.0	258.4	196.7	137.5	91.2	56.3	33.1	24.0
-52.5°	462.3	393.3	329.4	269.0	211.1	153.9	108.5	66.3	44.7	27.9	21.3
-55°	380.2	324.0	269.0	215.9	163.5	119.0	78.7	53.1	32.8	24.7	18.6
-57.5°	307.9	258.4	211.1	163.5	122.5	85.7	58.1	39.5	27.2	21.5	16.9
-60°	238.3	196.7	153.9	119.0	85.7	59.8	42.9	28.7	23.5	18.4	15.2
-62.5°	172.9	137.5	108.5	78.7	58.1	42.9	29.2	24.5	19.6	16.4	13.5
-65°	116.7	91.2	66.3	53.1	39.5	28.7	24.5	20.1	17.0	14.3	11.8
-67.5°	67.4	56.3	44.7	32.8	27.2	23.5	19.6	17.0	14.6	12.3	10.2
-70°	43.0	33.1	27.9	24.7	21.5	18.4	16.4	14.3	12.3	10.4	8.6
-72.5°	26.6	24.0	21.3	18.6	16.9	15.2	13.5	11.8	10.2	8.6	7.0
-75°	19.1	17.7	16.3	14.9	13.5	12.1	10.8	9.5	8.1	6.8	6.0
-77.5°	14.6	13.5	12.4	11.4	10.4	9.3	8.2	7.2	6.3	5.8	5.2
-80°	10.5	9.8	9.0	8.2	7.4	6.6	6.2	5.7	5.3	4.8	4.4
-82.5°	6.7	6.4	6.1	5.8	5.5	5.2	4.9	4.5	4.2	3.9	3.4
-85°	4.8	4.6	4.4	4.2	4.0	3.8	3.5	3.2	2.9	2.6	2.3
-87.5°	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.6	1.5	1.3	1.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.8	0.7	0.5	0.3	0.2	0.0
85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
77.5°	4.6	4.0	3.3	2.5	1.6	0.8	0.0
75°	5.3	4.6	3.9	2.9	2.0	1.0	0.0
72.5°	6.0	5.2	4.4	3.4	2.3	1.1	0.0
70°	6.8	5.8	4.8	3.9	2.6	1.3	0.0
67.5°	8.1	6.3	5.3	4.2	2.9	1.5	0.0
65°	9.5	7.2	5.7	4.5	3.2	1.6	0.0
62.5°	10.8	8.2	6.2	4.9	3.5	1.8	0.0
60°	12.1	9.3	6.6	5.2	3.8	1.9	0.0
57.5°	13.5	10.4	7.4	5.5	4.0	2.0	0.0
55°	14.9	11.4	8.2	5.8	4.2	2.2	0.0
52.5°	16.3	12.4	9.0	6.1	4.4	2.3	0.0
50°	17.7	13.5	9.8	6.4	4.6	2.4	0.0
47.5°	19.1	14.6	10.5	6.7	4.8	2.6	0.0
45°	21.3	15.6	11.2	7.3	5.0	2.7	0.0
42.5°	23.3	16.6	11.9	7.8	5.1	2.8	0.0
40°	25.3	17.6	12.6	8.3	5.3	2.9	0.0
37.5°	27.2	18.5	13.3	8.7	5.4	3.0	0.0
35°	28.9	19.8	14.0	9.1	5.6	3.1	0.0
32.5°	31.7	21.1	14.6	9.6	5.7	3.2	0.0
30°	36.9	22.4	15.2	9.9	5.8	3.3	0.0
27.5°	41.7	23.6	15.8	10.3	6.0	3.4	0.0
25°	46.1	24.7	16.3	10.6	6.1	3.4	0.0
22.5°	50.2	25.7	16.8	10.9	6.2	3.5	0.0
20°	53.8	26.6	17.2	11.2	6.3	3.6	0.0
17.5°	57.0	27.4	17.6	11.4	6.3	3.6	0.0
15°	59.8	28.1	17.9	11.6	6.4	3.7	0.0
12.5°	62.2	28.7	18.2	11.8	6.5	3.7	0.0
10°	64.2	29.2	18.4	11.9	6.5	3.7	0.0
7.5°	65.7	29.6	18.6	12.1	6.6	3.8	0.0
5°	66.8	29.9	18.7	12.1	6.6	3.8	0.0
2.5°	67.5	30.0	18.8	12.2	6.6	3.8	0.0
0°	67.7	30.1	18.8	12.2	6.6	3.8	0.0
-2.5°	67.5	30.0	18.8	12.2	6.6	3.8	0.0
-5°	66.8	29.9	18.7	12.1	6.6	3.8	0.0
-7.5°	65.7	29.6	18.6	12.1	6.6	3.8	0.0
-10°	64.2	29.2	18.4	11.9	6.5	3.7	0.0
-12.5°	62.2	28.7	18.2	11.8	6.5	3.7	0.0
-15°	59.8	28.1	17.9	11.6	6.4	3.7	0.0
-17.5°	57.0	27.4	17.6	11.4	6.3	3.6	0.0
-20°	53.8	26.6	17.2	11.2	6.3	3.6	0.0



REPORT NUMBER: P731228 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-57-80-1S-HEG

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	50.2	25.7	16.8	10.9	6.2	3.5	0.0
-25°	46.1	24.7	16.3	10.6	6.1	3.4	0.0
-27.5°	41.7	23.6	15.8	10.3	6.0	3.4	0.0
-30°	36.9	22.4	15.2	9.9	5.8	3.3	0.0
-32.5°	31.7	21.1	14.6	9.6	5.7	3.2	0.0
-35°	28.9	19.8	14.0	9.1	5.6	3.1	0.0
-37.5°	27.2	18.5	13.3	8.7	5.4	3.0	0.0
-40°	25.3	17.6	12.6	8.3	5.3	2.9	0.0
-42.5°	23.3	16.6	11.9	7.8	5.1	2.8	0.0
-45°	21.3	15.6	11.2	7.3	5.0	2.7	0.0
-47.5°	19.1	14.6	10.5	6.7	4.8	2.6	0.0
-50°	17.7	13.5	9.8	6.4	4.6	2.4	0.0
-52.5°	16.3	12.4	9.0	6.1	4.4	2.3	0.0
-55°	14.9	11.4	8.2	5.8	4.2	2.2	0.0
-57.5°	13.5	10.4	7.4	5.5	4.0	2.0	0.0
-60°	12.1	9.3	6.6	5.2	3.8	1.9	0.0
-62.5°	10.8	8.2	6.2	4.9	3.5	1.8	0.0
-65°	9.5	7.2	5.7	4.5	3.2	1.6	0.0
-67.5°	8.1	6.3	5.3	4.2	2.9	1.5	0.0
-70°	6.8	5.8	4.8	3.9	2.6	1.3	0.0
-72.5°	6.0	5.2	4.4	3.4	2.3	1.1	0.0
-75°	5.3	4.6	3.9	2.9	2.0	1.0	0.0
-77.5°	4.6	4.0	3.3	2.5	1.6	0.8	0.0
-80°	3.9	3.3	2.6	2.0	1.3	0.7	0.0
-82.5°	2.9	2.5	2.0	1.5	1.0	0.5	0.0
-85°	2.0	1.6	1.3	1.0	0.7	0.3	0.0
-87.5°	1.0	0.8	0.7	0.5	0.3	0.2	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

